

### **ABSTRACT OF THE DISCLOSURE**

An apparatus for improving the stop band response of a surface  
5 acoustic wave device (200) comprising a surface acoustic wave device (200) having  
internal electromagnetic coupling (106) and external electromagnetic coupling (108)  
and acoustic coupling (104); and a cancellation network (250, 251) coupled to the  
surface acoustic wave device to reduce the internal electromagnetic coupling (106)  
and external electromagnetic feed through (108); wherein the cancellation network  
10 (250, 251) reduces the amount of electromagnetic feed through at the output (102) of  
the surface acoustic wave device (200).